CPW/TU White River Studies 2019

LIVE LIFE OUTSIDE

TROUT UNLIMITED

Overview

1. CPW & TU Macroinvertebrate Sampling
2. CPW & TU Temperature Study
3. CPW Fish Population Surveys
4. CPW & Sleepy Cat Time-Lapse Photography of Algal Blooms

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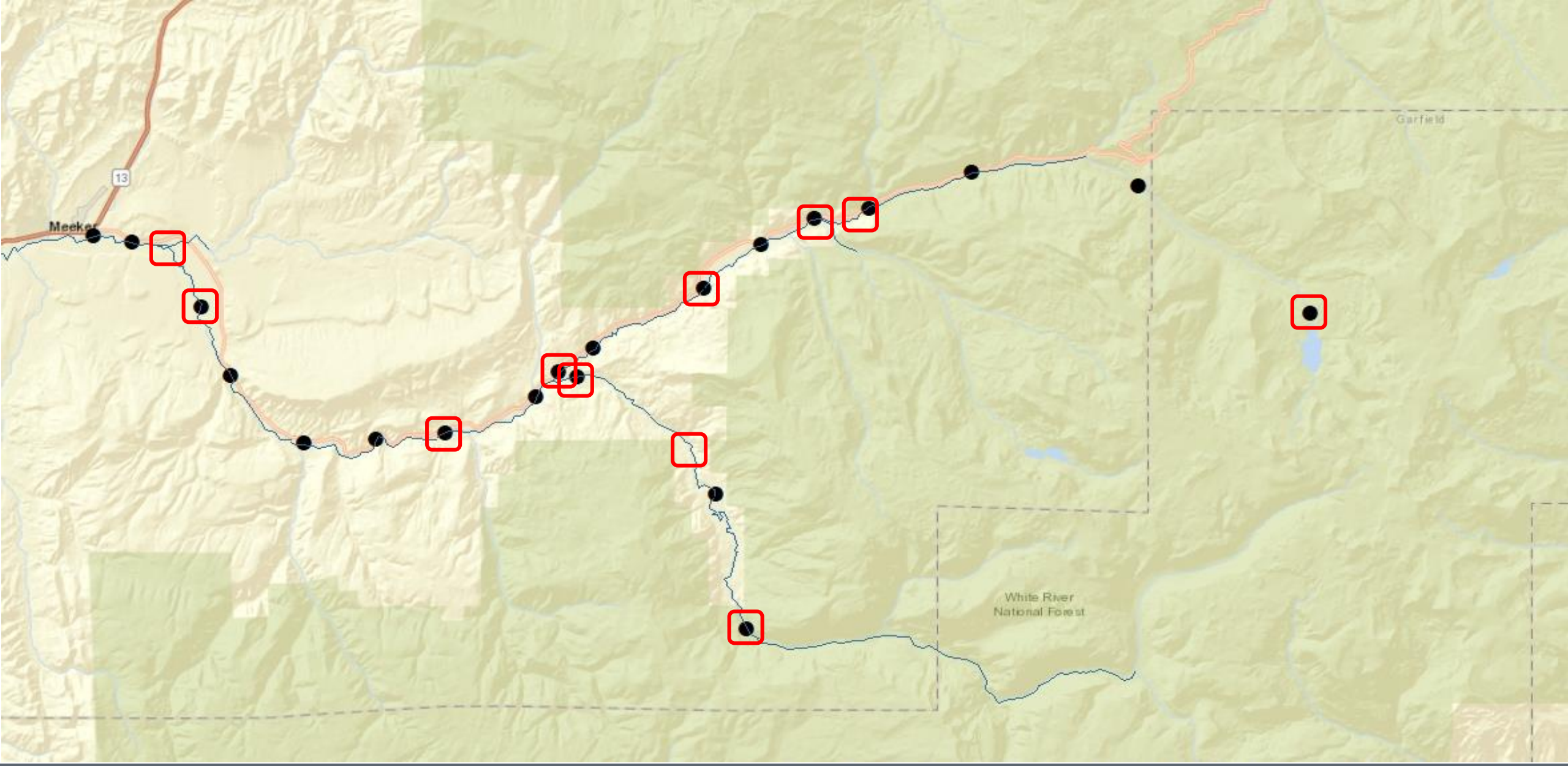
CPW & TU Macroinvertebrate Sampling

- 2019 Bug sampling donations: Elk Creek Ranch, Rio Blanco Ranch, Marvine Ranch
- 10 sites established in 2015
- Quantitative method added to qualitative method in 2018
- 11 sites sampled in 2019



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2018 Preliminary Results

- Multi-metric Index (MMI) scores calculated at 10 sites
- MMI score used as an indicator of stream health
- MMI scores show 0/10 sites qualify as impaired
  - i.e. no evidence of impairment
- NF and SF White River MMI scores did not differ significantly
- Further analysis and report coming

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CPW & TU Temperature Study

- Two data-logging temperature sensors deployed at all USGS sampling sites in Spring 2019
- Total of 40 temperature sensors set to collect a temperature reading every hour
- Spring of 2020 – download temperature data and redeploy loggers

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CPW Fish Surveys

Four sampling sites along the mainstem White River established in 2006

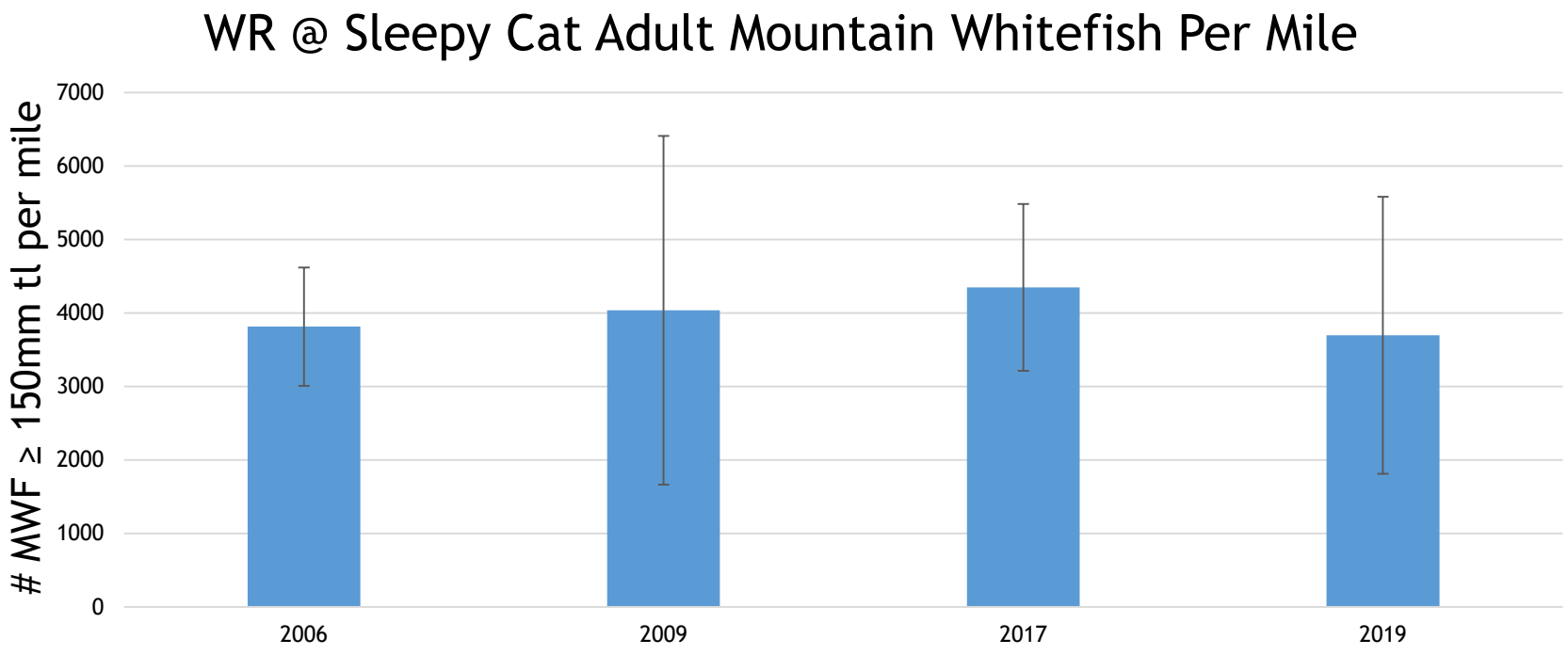
Information gathered during sampling includes:

1. Estimated size of population for each species (e.g. fish/mile)
2. Size structure of populations (e.g. length frequency)
3. Spawning and recruitment success from year to year
4. Presence of disease (e.g. gill lice)

CPW Fish Surveys

- Sampled 2 of 4 standardized mainstem White River sites by raft electrofishing 2019
- Will focus on the two sites upstream of Meeker
- Focus on mountain whitefish

CPW Fish Surveys - Sleepy Cat Fishing Easement



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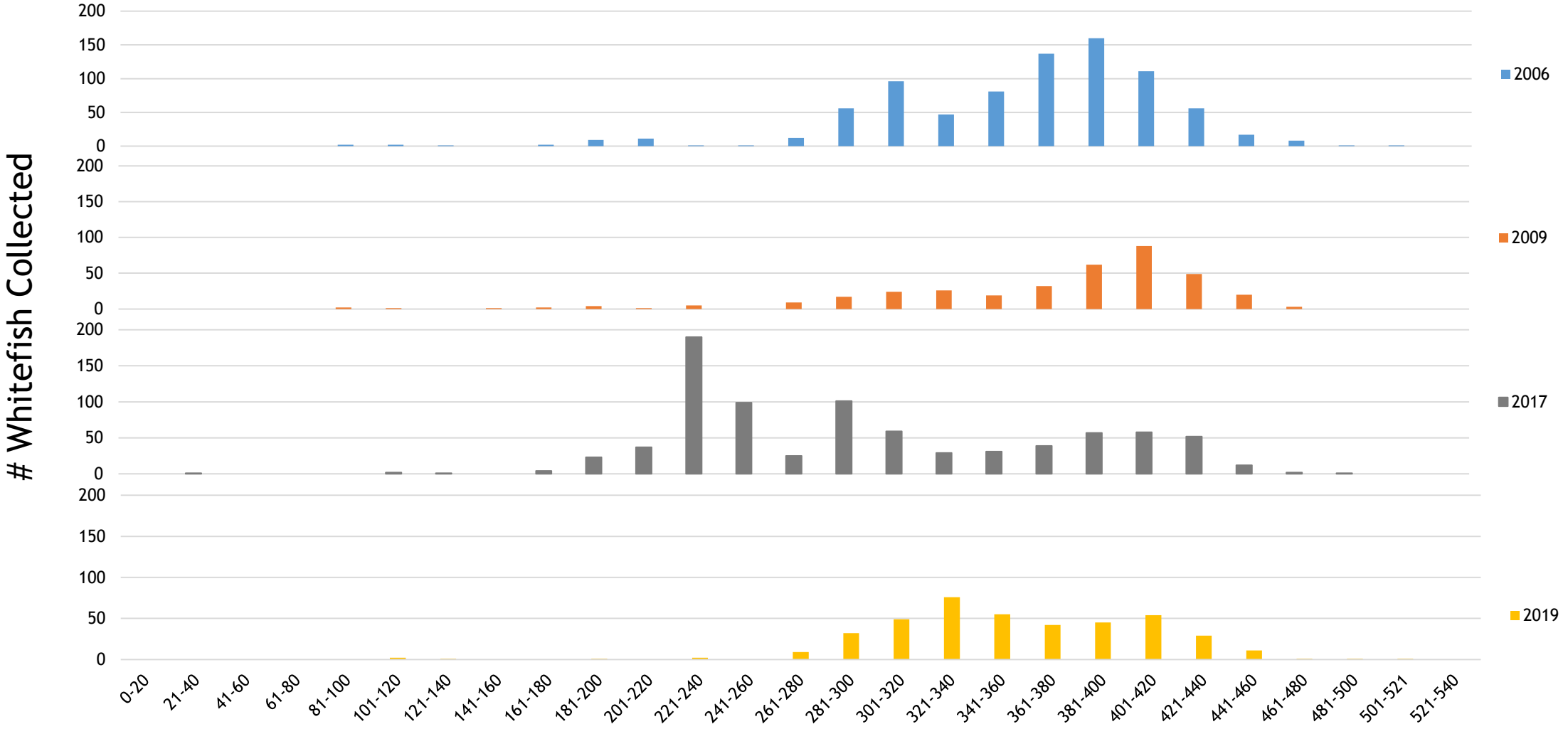

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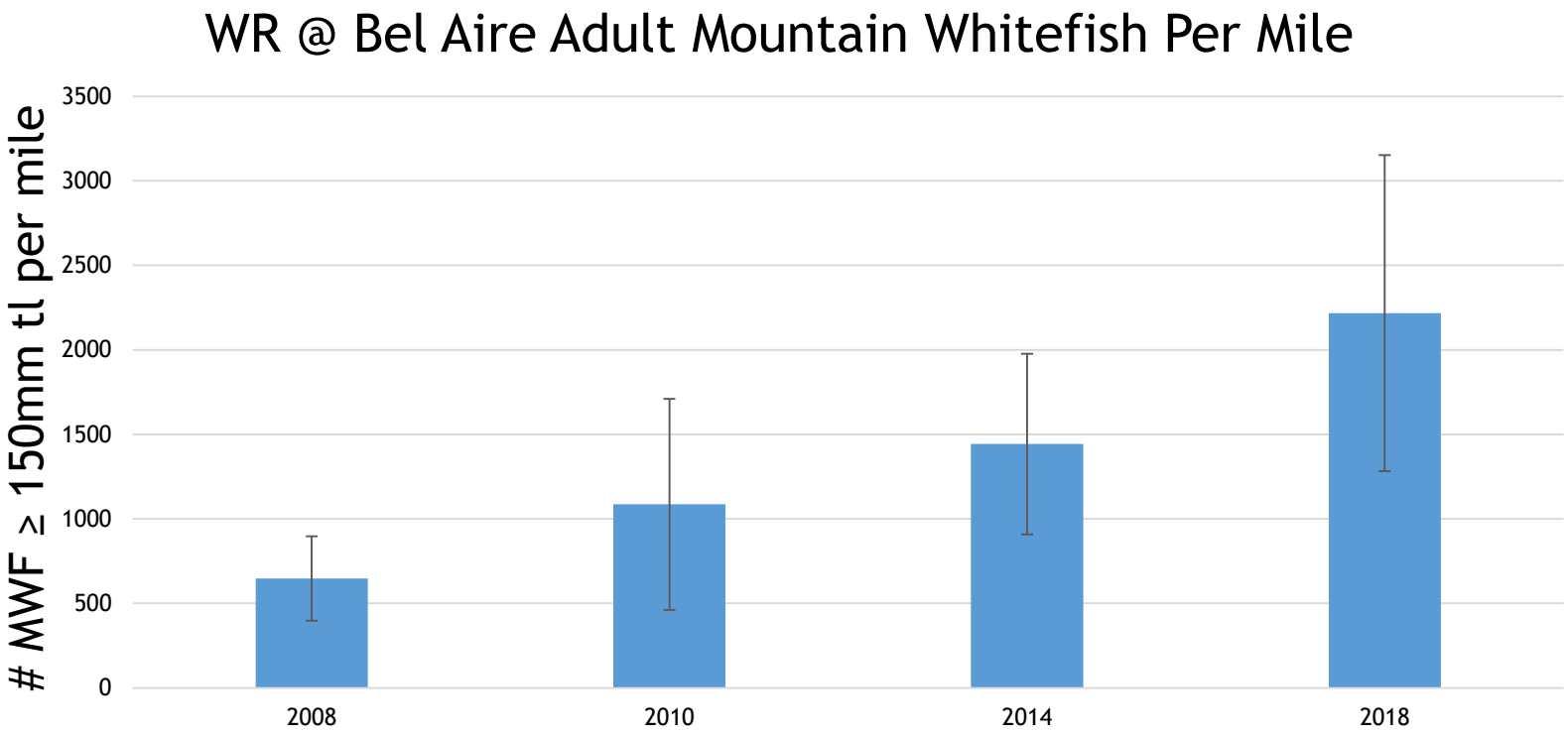
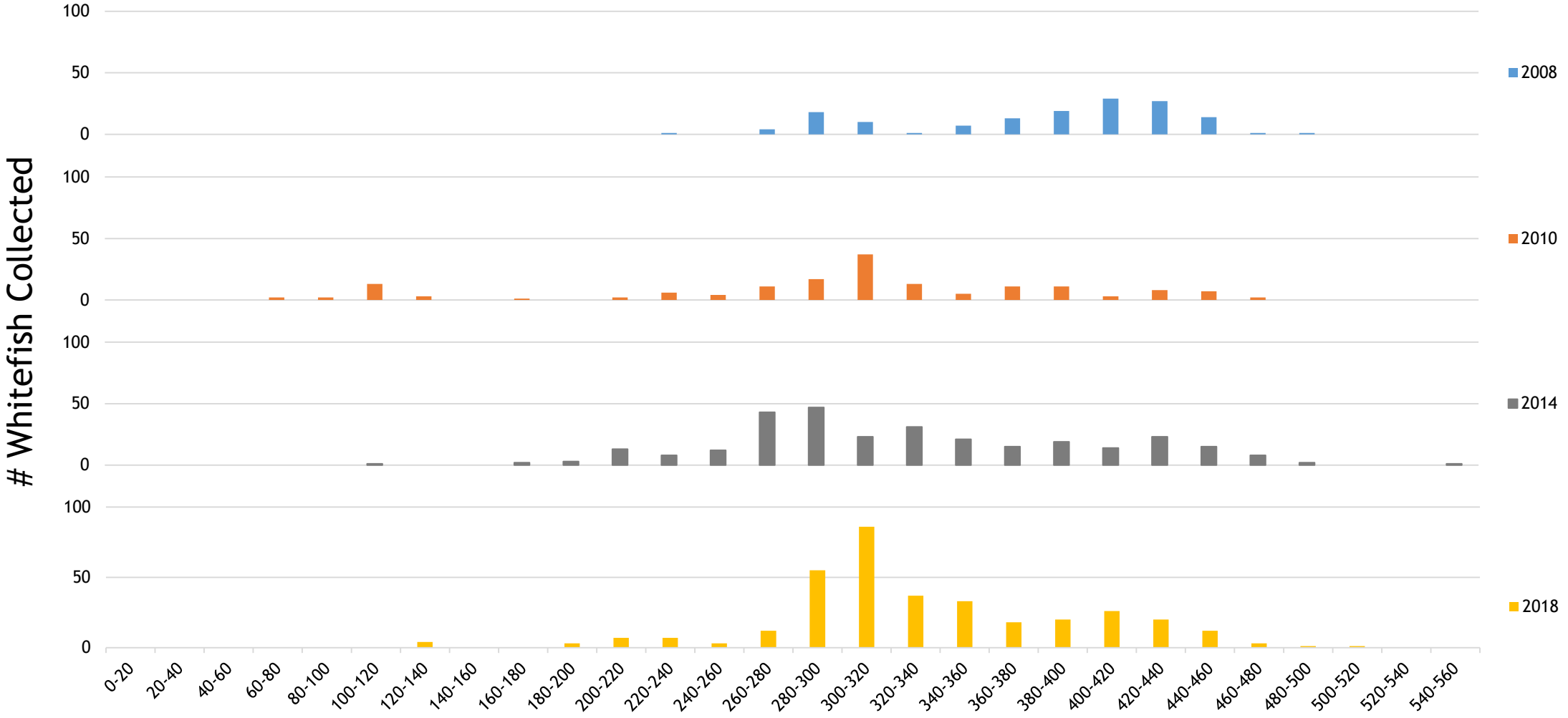
CPW Fish Surveys – Bel Aire



CPW Fish Surveys – Bel Aire



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CPW and Sleepy Cat Algae Time-lapse